IN THE CLAIMS

Please cancel claims 166 and 168 without prejudice.

Please amend claims 87, 106, 155, 159, 167, and 169 as indicated below.

Presented below are the amended claims in a clean-unmarked format. All of the claims pending in this application are set forth for the convenience of the Examiner. A version with markings to show changes made is set forth as an appendix to this Amendment.

- 1. 86. (Cancelled).
- 87. (Five Times Amended) An electrical interconnection component comprising:

 a resilient elongate element having a first end which is non-releasably fixed to a

substrate and a second end which is free, said second end being a freestanding

end; and

- a contact tip structure structurally distinct from said resilient elongate element,
 wherein said second end of said resilient elongate element is bonded to said
 contact tip structure.
- 88. (Amended) The interconnection component, according to claim 87 wherein: the contact tip structure is formed with at least one pointed feature.
- 89. The interconnection component, according to claim 87 wherein: the contact tip structure comprises multiple metallic layers.
- 90. (Amended) The interconnection component, according to claim 87 wherein: the contact tip structure is integral with a cantilevered interconnect structure.
- 91. (Amended) The interconnection component, according to claim 87 wherein:

the interconnection element has a core element and a shell on the core element.

- 92. 94. (Cancelled).
- 95. (Twice Amended) The interconnection component, according to claim 87 wherein: said resilient elongate element comprises a core element, and wherein the core element has a diameter in the rage of from 0.25 to 10 mils.
- 96. (Twice Amended) The interconnection component, according to claim 87 wherein: said resilient elongate element comprises a core element, and wherein the core element has a diameter in the range of from 0.5 to 3 mils.
- 97. (Twice Amended) The interconnection component, according to claim 87 wherein: said resilient elongate element comprises a core element, and wherein the core element has a length in the range of from 10 mils to 500 mils.
- 98. (Twice Amended) The interconnection component, according to claim 87 wherein: said resilient elongate element comprises a shell, and wherein the shell has at least one layer which comprises a material which is selected for its ability to provide mechanical properties selected from the group consisting of spring properties, resiliency yield strength and compliance for the resilient elongate element.
- 99. The interconnection component, according to claim 98 wherein:

 the shell has at least one layer which comprises a material which has a yield strength

 of at least thirty thousand pounds per square inch.
- 100. The interconnection component, according to claim 98 wherein:

the shell has at least one layer which comprises a material which has a tensile strength in excess of 80,000 pounds per square inch.

- 101. (Twice Amended) The interconnection component, according to claim 87 wherein: said resilient elongate element comprises a shell, and wherein the shell has at least one layer which comprises a material selected from the group consisting of nickel, iron, and cobalt.
- 102. (Twice Amended) The interconnection component according to claim 87 wherein: said resilient elongate element comprises a shell, and wherein the shell has at least one layer which comprises a material selected from the group consisting of copper, nickel, cobalt, tin, boron, phosphorous, chromium, tungsten, molybdenum, bismuth, indium, cesium, antimony, gild, silver, rhodium, palladium, platinum, lead, and ruthenium.
- 103. (Twice Amended) The interconnection component, according to claim 87 wherein: said resilient elongate element comprises a core element and a shell, and wherein the core element comprises gold and the shell comprises a material selected from the group consisting of nickel and cobalt.
- The interconnection component, according to claim 91 wherein: the shell has a thickness in the rage of from 0.20 mils to 20 mils.
- 105. The interconnection component, according to claim 91 wherein: the shell has a thickness in the range of from 0.25 to 10 mils.
- 106. (Five Times Amended) An electronics assembly comprising:

a substrate;

a resilient elongate element having a first end secured to the substrate; and a contact tip structure, structurally distinct from said resilient elongate element, a second end of said resilient elongate element being bonded to said contact tip structure, wherein said second end of the said resilient elongate element is a freestanding end.

- 107. (Twice Amended) The electronics assembly, according to claim 106 further comprising:
 - a plurality of resilient elongate elements, each having a first end secured to the substrate; and a plurality of contact tip structures, each secured to a respective end of the respective resilient elongate element opposing a respective first end thereof.
- 108. (Twice Amended) The electronics assembly, according to claim 106 wherein: the contact tip structure is separately fabricated and mounted to the resilient elongate element.
- 109. (Twice Amended) The electronic assembly, according to claim 108 wherein: the resilient elongate element has a relatively flexible core element and a layer on the relatively flexible core element.
- 110. (Twice Amended) The electronic assembly, according to claim 108 wherein: the resilient elongate element has a relatively flexible core and a layer, on the relatively flexible core element, of a material selected from the group consisting of nickel, an alloy of nickel, cobalt, an alloy of cobalt and an alloy of nickel and cobalt.

- 111. The electronic assembly according to claim 110 wherein: the relatively flexible core element comprises gold.
- 112. (Twice Amended) The electronics assembly, according to claim 106 wherein: the resilient elongate element has a core element and a shell, and wherein the core element is readily-shaped and comprises a material selected from the group consisting of:
 - gold, aluminum and copper with small amounts of beryllium, cadmium,silicon and magnesium, and
 - (b) metals of the platinum group, and
 - (c) lead, tin, and indium.
- 113. (Twice Amended) The electronics assembly, according to claim 109 wherein: the layer comprises a material which is selected for its ability to provide mechanical properties selected from the group consisting of spring properties, resiliency yield strength and compliance for the resilient elongate element.
- 114. The electronics assembly, according to claim 109 wherein:

 the first end of the relatively flexible core element forms a first intimate bond with a

 conductive contact terminal carried by an electronic component; and

 the layer forms a second intimate bond with at least a portion of the conductive contact

 terminal immediately adjacent the first intimate bond.
- 115. 153. (Cancelled).

- 154. The electrical interconnection component of claim 87, wherein said contact tip structure comprises a pad.
- 155. (Amended) The electrical interconnection component of claim 154, wherein said second end of said resilient elongate element is bonded to a surface of said pad.
- 156. The electrical interconnection component of claim 155, wherein an opposite surface of said pad comprises at least one projection.
- 157. The electrical interconnection component of claim 156, wherein said opposite surface of said pad comprises a plurality of projections.
- 158. The electrical interconnection component of claim 154, wherein said pad comprises a plurality of layers of materials.
- 159. (Amended) The electrical interconnection component of claim 87, wherein said resilient elongate element comprises a wire, and said second end of said resilient elongate element is wire bonded to said contact tip structure.
- 160. The electronics assembly of claim 106, wherein said contact tip structure comprises a pad.
- 161. The electronics assembly of claim 160, wherein said second end of said resilient elongate element is bonded to a surface of said pad.
- 162. The electronics assembly of claim 161, wherein an opposite surface of said pad comprises at least one projection.

- 163. The electronics assembly of claim 162, wherein said opposite surface of said pad comprises a plurality of projections.
- 164. The electronics assembly of claim 160, wherein said pad comprises a plurality of layers of materials.
- 165. The electronics assembly of claim 106, wherein said resilient elongate element comprises a wire, and said second end of said resilient elongate element is wire bonded to said contact tip structure.
- 166. (Cancelled).
- 167. (Amended) The electronic interconnection component of claim 87, wherein said contact tip structure is non-releasably secured only to another element when the resilient elongate element is conducting current as an electrical interconnection.
- 168. (Cancelled).
- 169. (Amended) The electronic assembly of claim 106, wherein said contact tip structure is non-releasably secured only to another element when the resilient elongate element is conducting current as an electrical interconnection.